

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : RICOH CO LTD

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(72)Inventor : YAMAZAKI SHUICHI

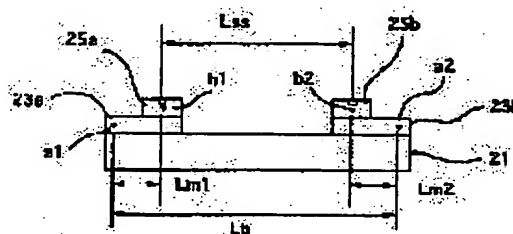
(54) PHOTODETECTOR

(57)Abstract:

PURPOSE: To make it possible to detect an exact scanning speed and to correct a writing clock frequency by eliminating the fluctuation in the distance between two photodetecting periods due to temp. change.

CONSTITUTION: This photodetector has a base member 21 of which the coefft. of thermal expansion is α_1 , intermediate members 23a, 23b of which the coefft. of thermal expansion is α_2 and photodetectors 25a, 25b. In such a case, the relation between the coefft. of thermal expansion α_1 of the base member 21 and the coefft. of thermal expansion α_2 of the intermediate members 23a, 23b is $\alpha_1 < \alpha_2$. Further, the intermediate members 23a, 23b are fastened to the base member 21 in positions a1, a2 on the more outside ear in the horizontal direction than the fastening positions b1, b2 of the photodetectors 25a, 25b if the positions, where the photodetectors 25a, 25b are fastened to the intermediate members 23a, 23b are defined as b1, b2.

Then, the expansion (shrinkage) of the base member 21 and the expansion (shrinkage) of the intermediate members 23a, 23b eventually act in reverse directions when the temp. change arises. The change in the distance between the two photodetectors 25a and 25b is thus suppressed.



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